

Patent Abstracts of Japan

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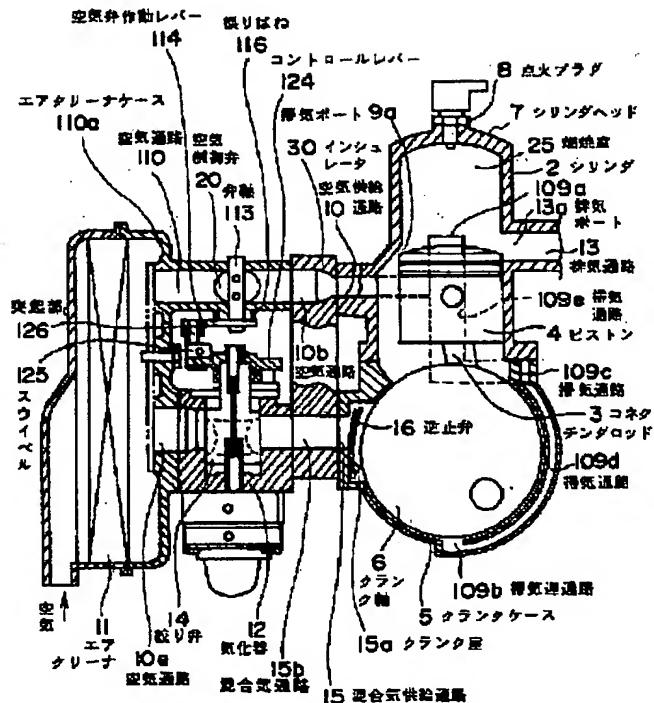
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APPLICANT : MITSUBISHI HEAVY IND LTD;

INVENTOR : KOBAYASHI YOSHIO;

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TITLE : STRATIFIED SCAVENGING 2-CYCLE
 ENGINE



ABSTRACT : PROBLEM TO BE SOLVED: To hold the proper air fuel mixture concentration in the whole operation region of an engine by providing a connecting mechanism for interlocking an air control valve with a throttle valve between them, totally closing the air control valve until the throttle valve reaches a designated opening, and making both valves operated in proportion to each other when it reaches the designated opening or more.

SOLUTION: This engine is provided with a throttle valve 4 for controlling the flow of an air fuel mixture and an air control valve 20 for controlling the flow of air introduced into a combustion chamber 25 through an air supply path 10 to make scavenging action. Two valves are interlocked with each other through a swivel 125, a projecting part 126 and an air valve operating lever 114. During low-load operation including idling operation until the throttle valve 14 reaches a fixed opening, the air control valve 20 is totally closed, and after that, the opening of the throttle valve 14 and the opening of the air control valve are set to be proportional. Thus, combustion during low load operation is stabilized, and during high load operation, the fuel consumption rate can be reduced and harmful emission in the exhaust gas can be reduced.

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